

Parts List, Technical Labels, & Wiring Diagrams

Models

PGAC36D1HE	PGMD36H090C
PGAC42E1HE	PGMD42H115C
PGAC47F1HE	PGMD48H135C
PGAC60G1HE	PGMD60H150C

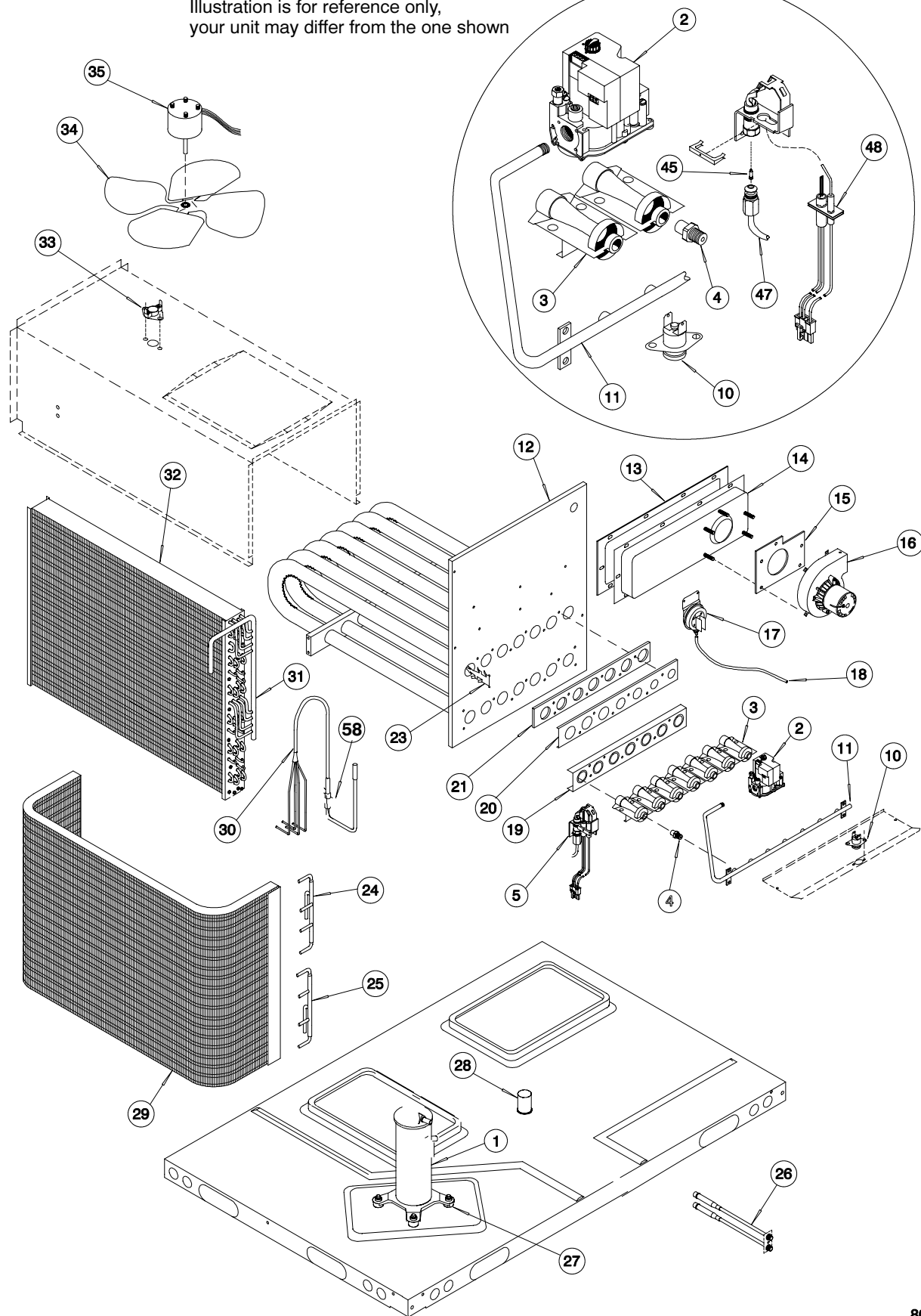
Package Gas-Electric Combination Units



This picture is for reference only, your unit may differ from the one shown.

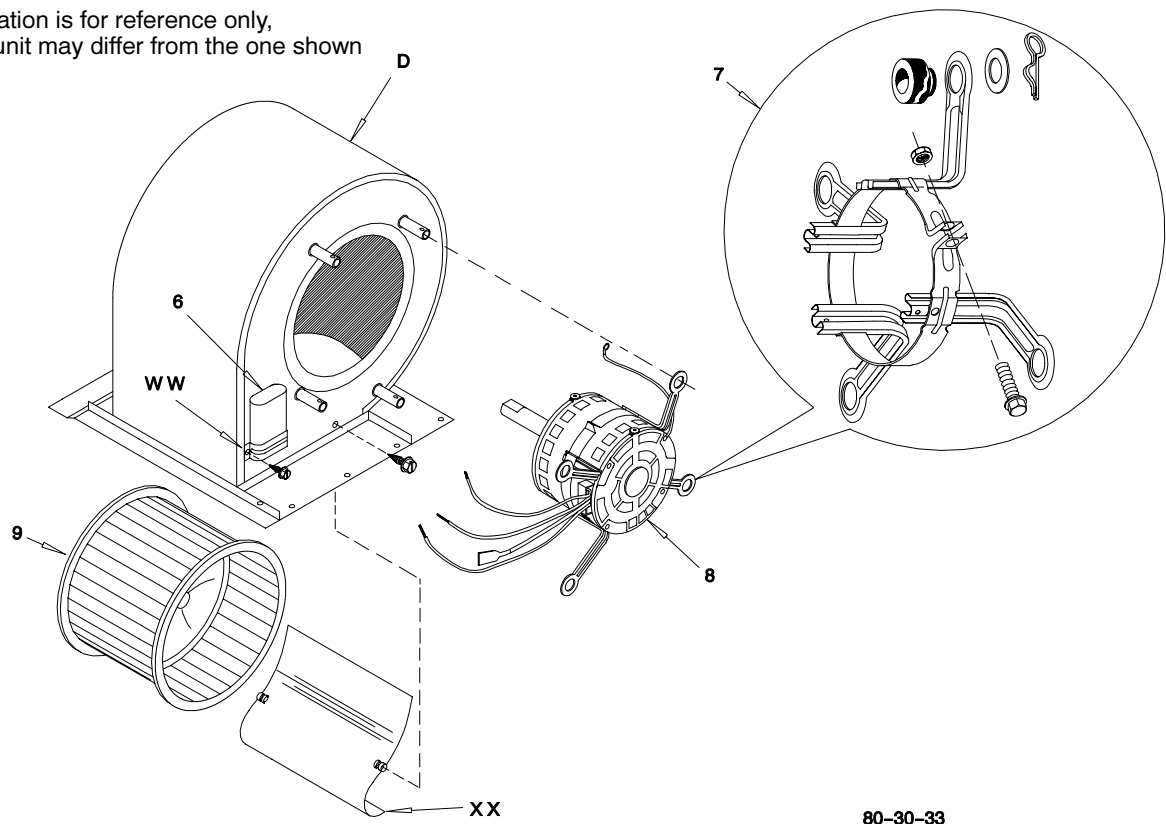
Functional Parts - See Page 6 for Parts Identification

Illustration is for reference only,
your unit may differ from the one shown

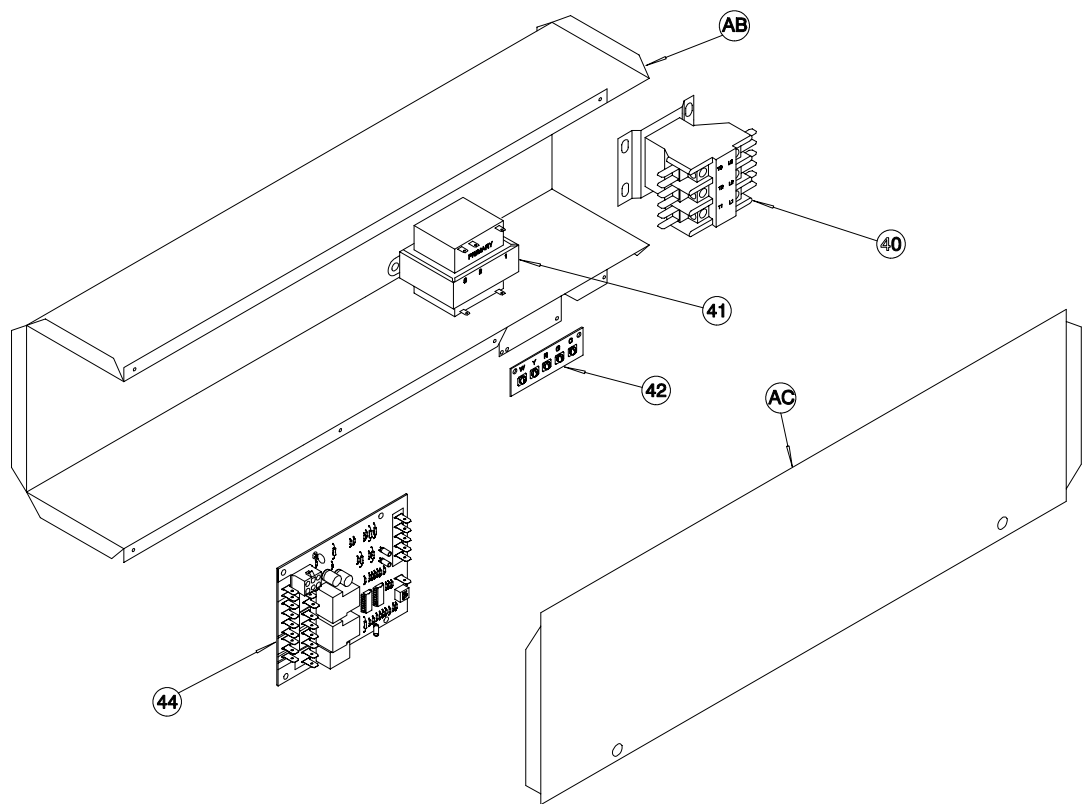


Blower & Control Box Assemblies - See Page 6 for Parts Identification

Illustration is for reference only,
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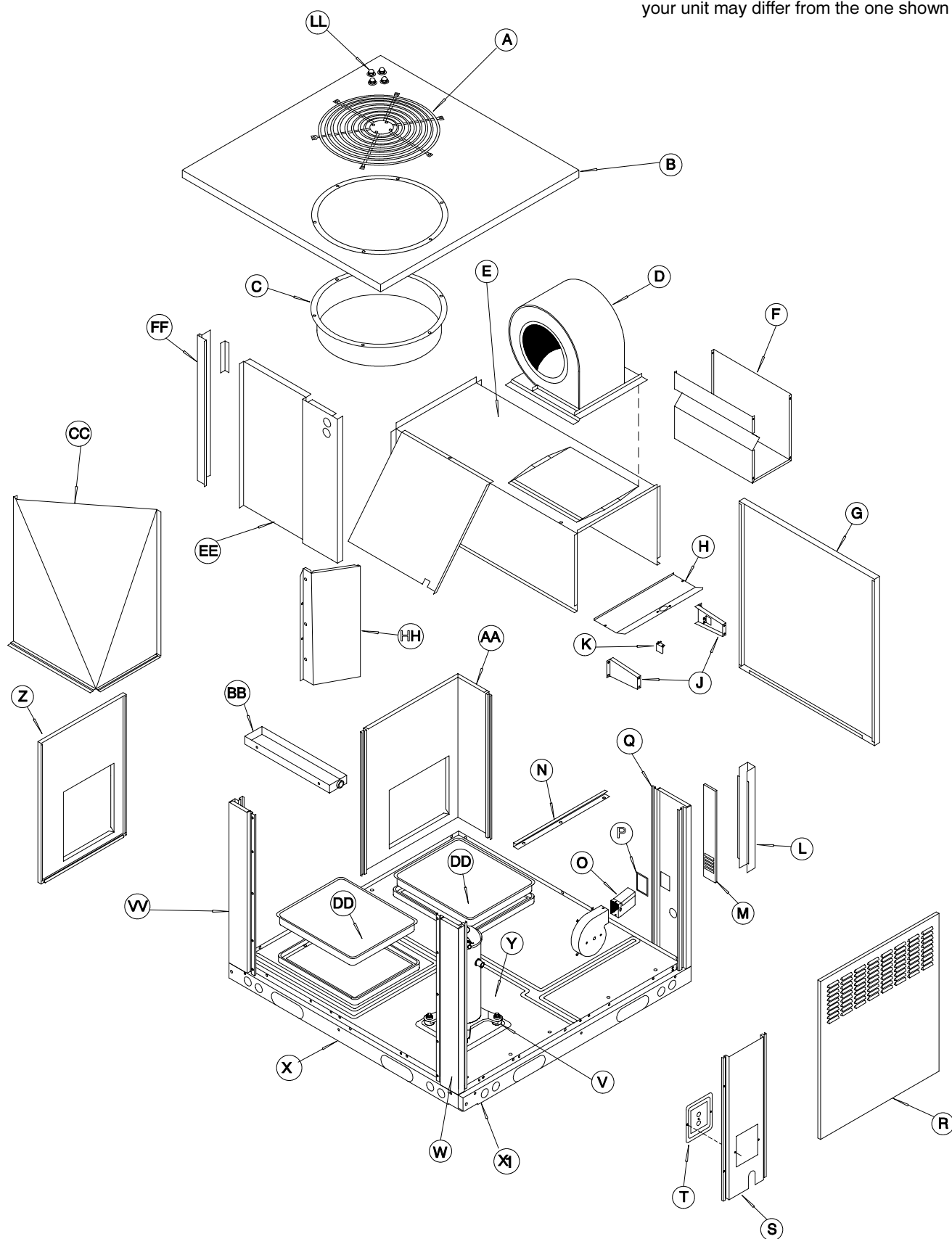
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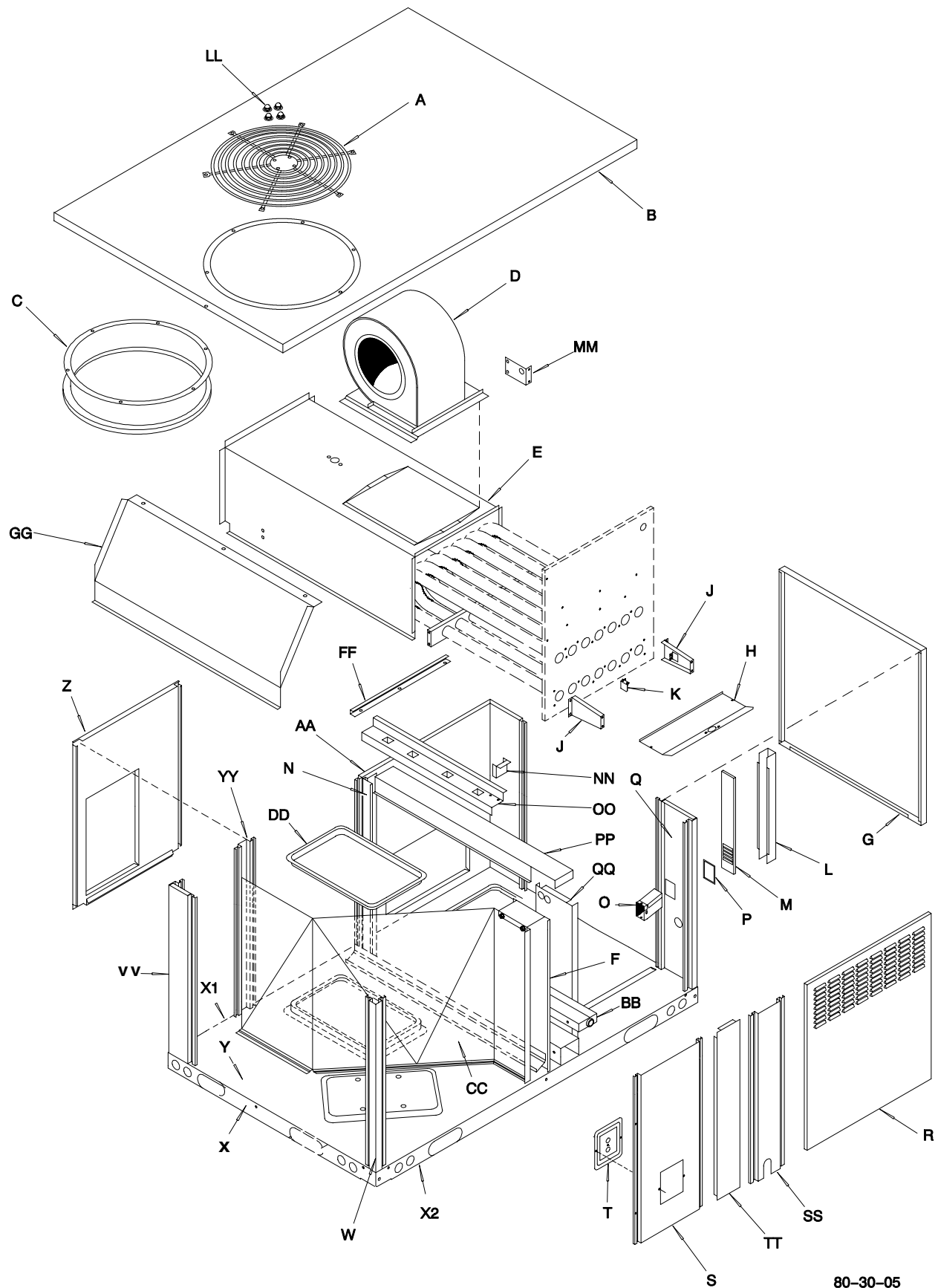
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Non-Functional Parts, 3 & 3-1/2 Ton - See Page 7 for Parts Identification

Illustration is for reference only,
your unit may differ from the one shown



Non-Functional Parts, 4 & 5 Ton - See Page 7 for Parts Identification



MODELS

PGAC36D1HE, PGAC42E1HE, PGAC47F1HE, PGAC60G1HE, PGMD36H090C, PGMD42H115C, PGMD48H135C, PGMD60H150C

	DESCRIPTION	PART NO.	36	42	47/48	60
1	Compressor, CR32K6TF5	1083930	1			
	CR42K6TF5	1093931	-	1		
	ZR45KCTF5	1084532	-	-	1	
	ZR61KCTF5	1084537	-	-	-	1
2	Valve, Gas (Gas/L.P.)	1011024	1	1	1	1
3	Burner Assy.	1008725	1			
		1008726	-	1		
		1009179	-	-	1	
		1009180	-	-	-	1
4	Orifice, Burner, Nat. #43	1065252	4	5	6	7
	L.P. #55	1065255	4	5	6	7
5	Burner, Pilot/Igniter Nat./L.P.	1149856	1	1	1	1
6	Capacitor, 15Mfd., 370v	1094959	1	1		
	20Mfd., 440v	1094968	-	-	1	1
7	Mount, Motor Kit	1004905	1	1		
		1002804	-	-	1	1
8	Motor, Blw, 1/2hp,230v, 3sp	1065279	1			
	3/4 hp, 230v, 4 speed	1054579	-	1		
	1 hp, 230v, 3 speed	1054585	-	-	1	
	1 hp, 230v, 4 speed	1054586	-	-	-	1
9	Wheel, Blower, (11-8DD)	1054592	1			
	(11-9DD)	1065361	-	1		
	(11-11DD)	1054593	-	-	1	1
10	Switch, Limit (rollout)	1005549	1	1	1	1
11	Manifold, Gas	1004140	1			
		1004141	-	1		
		1054272	-	-	1	
		1054414	-	-	-	1
12	Heat, Exchanger	1084480	1			
		1084481	-	1		
		1084484	-	-	1	
		1084485	-	-	-	1
13	Gasket, Collector Box	1065209	1	1		
		1065210	-	-	1	1
14	Box, Collector	1065256	1	1		
		1065257	-	-	1	1
15	Gasket, Blower	607014	1	1	1	1
16	Blower, Combustion	1054268	1	1	1	1
17	Switch, Vent Pressure	1083165	1	1	1	1
18	Tube, Sensor	1003687	1	1	1	1
19	Plate, Injector	1084330	1			
		1084331	-	1		
		1084332	-	-	1	
		1084333	-	-	-	1
20	Plate, Restrictor	1054395	1			
		1054394	-	1		
		1054393	-	-	1	
		1054392	-	-	-	1

	DESCRIPTION	PART NO.	36	42	47/48	60
21	Gasket, Restrictor Plate	1065214	1			
		1065213	-	1		
		1065212	-	-	1	
		1065211	-	-	-	1
23	Turbulator, Outlet	1054516	4	5	6	7
24	Manifold, Condenser (Discharge)	1065183	1	1		
		1081458	-	-	1	1
25	Manifold, Condenser (Liquid)	1082421	-	-	1	1
26	Port Valve Assembly	1083939	1	1	1	1
27	Grommet, Comp. Mtg.	1053188	4	4		
		1052060	-	-	4	4
28	Capacitor, 5Mfd.,370Volt	1094954	1	1		
	7.5Mfd.,370Volt	1094239	-	-	1	
	10Mfd.,440Volt	1094965	-	-	-	1
29	Coil, Condenser	1065652	1	1		
		1082448	-	-	1	1
30	Tube, Cap. Assembly	1065187	1			
		1066314	-	1		
	Tube, Feeder Assembly	1081492	-	-	1	
		1081493	-	-	-	1
31	Manifold, Evap	1065186	1	1		
		1081494	-	-	1	
		1082409	-	-	-	1
32	Coil, Evaporator	1066228	1			
		1066304	-	1		
		1082451	-	-	1	
		1082453	-	-	-	1
33	Switch, Limit-Blower Deck	1065295	1	1	1	
		1065702	-	-	-	1
34	Fan, Condenser	1080790	1	1		
		1080791	-	-	1	
		1080792	-	-	-	1
35	Motor, Cond Fan 1/3 hp, 230v	1082492	1	1		
	1/2 hp, 230v	1066350	-	-	1	
	3/4 hp, 230v	1065751	-	-	-	1
40	Contacto 35 Amp. 3 pole	607339	1	1	1	1
41	Transformer, 208-240v Pri, 24v Sec 40va	1082611	1	1	1	1
42	Board, Terminal Lo Volt	612254	1	1	1	1
44	Timer, Fan	1009838	1	1	1	1
45	Orifice, Pilot Burner (Nat. Gas) .020	1160403	1	1	1	1
	(L.P. Gas) .012	612923	1	1	1	1
47	Tube, Pilot	64930	1	1	1	1
48	Ignitor & Sensor	1009524	1	1	1	1
57	Plug, Compr. Harness	1083935	1	1	1	1
58	Flow, Control	1082405	-	-	1	
		1082406	-	-	-	1

	DESCRIPTION	PART NO.	36	42	47/48	60
A	Grille, Outlet	1068202	1	1		
		1072842	-	-	1	1
AA	Panel, Supply Air	1068165	1	1		
		1068161	-	-	1	1
AB	Box, Control	1054384	1	1		
		1054509	-	-	1	1
AC	Cover, Control Box	1054475	1	1		
		1054510	-	-	1	1
B	Panel, Top	1068191	1	1		
		1068157	-	-	1	1
BB	Pan, Drain	1065795	1	1		
		1068366	-	-	1	1
C	Office, Condenser Fan	1065724	1	1		
		1065725	-	-	1	1
CC	Partition, Return Air	1065033	1	1		
		1054471	-	-	1	1
D	Housing, Blower	1065301	1			
		1065302	-	1		
		1065074	-	-	1	1
DD	Cover, Duct	1068159	2	2		
		1068158	-	-	2	2
E	Deck, Blower	1065404	1	1		
		1065379	-	-	1	1
EE	Partition, Heat / Cool	1065034	1	1		
F	Baffle, Air	1082435	-	-	1	1
FF	Bracket, Supply Air	1054524	1	1		
		1054525	-	-	1	1
G	Panel, Access-Heat Exc.	1068180	1	1		
		1068181	-	-	1	1
GG	Baffle, Evap Blower (Air)	1054522	-	-	1	1
H	Shield, Burner	1054422	1			
		1054267	-	1		
		1054382	-	-	1	
		1054415	-	-	-	1
J	Support, Manifold	1084327	2	2	2	2
K	Bracket, Ignitor	1054275	1	1	1	1
L	Hood, Flue Exhaust	1054269	1	1		
		1054621	-	-	1	1
LL	Nut, Cap	1067902	4	4	4	4
M	Support, Flue	1054511	1	1		
		1054620	-	-	1	1
MM	Bracket, Blower Support	1065030	-	-	1	1
N	Bracket, Evaporator	1065035	1	1		
		1082436	-	-	1	1
NN	Bracket, Filter Top	1065618	-	-	1	1
O	Extension, Blower	1054461	1	1	1	1
OO	Support, Filter top	1054502	-	-	1	1
P	Gasket, Extension	1065260	1	1	1	1
PP	Panel, Coil Support	1082434	-	-	1	1
Q	Post, Corner (Heating)	1068187	1	1		
		1068188	-	-	1	1
QQ	Panel, Heating Area	1054508	-	-	1	1

	DESCRIPTION	PART NO.	36	42	47/48	60
R	Panel, Access (Gas)	1068183	1	1		
		1068184	-	-	1	1
S	Panel, Pressure Port	1068182	1	1		
		1068164	-	-	1	1
SS	Panel, Drain Outlet	1068162	-	-	1	1
T	Plate, Pressure Port	1068189	1	1	1	1
TT	Panel, Filter Access	1068175	-	-	1	1
VV	Post, Return Air	1068168	-	-	1	1
W	Post, Corner	1068167	2	2		
		1068172	-	-	1	1
WW	Clamp, Capacitor	1095020	1	1		
		1095022	-	-	1	1
X	Rail, Base	1065001	4	4	2	2
X1	Rail, Base	1054464	-	-	1	1
X2	Rail, Base	1084078	-	-	1	1
XX	Panel, Blower Cutoff	1065102	1			
		1065103	-	1		
		1065073	-	-	1	1
Y	Panel, Base	1065031	1	1		
		1054463	-	-	1	1
YY	Post, Center	1068163	-	-	1	1
Z	Panel, Return Air	1068166	1	1		
		1068160	-	-	1	1
) (	Gas Conversion Kit (Nat. to L.P.)	1084495	1			
) (		1084496	-	1		
) (		1084497	-	-	1	
) (		1084498	-	-	-	1
) (	Gas Conversion Kit (L.P. to Nat.)	1148142	1	1	1	1
) (	Manual, User's Information	5090111 0100	1	1	1	1
) (	Manual, Installation	1068276	1	1	1	1

Technical Labels

Model or Style No. PGAC36D1H, PGMD36H090		Performance Data: 80° D.B. Indoor													
Specifications		Coil – INTERNAL													
		Rated 1200 CFM .20 ESP Wet.													
Electrical:	Voltage/Phase/Hz Branch Circuit Ampacity Wire Size/Max. Ft. Time Delay Fuse Size Max. Fuse/HACR Btk. Boost Transformer	208/230-3-60 18.9 10/66 25 25 -	Low Wet Bulb (63°)					High Wet Bulb (69°)							
			Ambient Outdoor °F	Appx. MBTUH	Sens. Total Ratio	PSiG. Disch. (Head)	PSiG. Suct.	Unit Amp.	Ambient Outdoor °F	Appx. MBTUH	Sens. Total Ratio	PSiG. Disch. (Head)	PSiG. Suct.	Unit Amp.	
Fan Motor:	H P/Type FLA/LRA Speeds/CFM Cap. MFD/Volts	COND. 1/3 PSC 1.4/6.0 1/3000 5/370	EVAP. 1/2 PSC 3.6/7.5 3/1435 15/370	65	34.2	.88	169	65	11.5	37.4	.62	183	74	12.2	
				75	33.5	.90	190	69	12.4	36.6	.64	205	79	13.0	
Compressor:	FLA/LRA	COPELAND 1L1/70		85	32.9	.92	216	72	13.2	40	.66	233	82	13.9	
				95	32.1	.94	245	76	14.0	35.1	.67	264	86	14.7	
Service Driers:	Liquid/Charge Suction	16 cu in / 110oz 30 sq in		105	30.5	.95	275	79	14.8	50	.68	297	90	15.6	
				115	27.9	.95	304	82	15.6	30.6	.68	328	93	16.4	
Ref. Charge (R-22 Oz.)		82	Blower Performance Data (Add 0.05 In. W.C. for Wet Coil)												
Clearances	See Installation Instructions			External Static Pressure Inches of W. C.											
				CFM @ 230V - Dry Coil (No Filter)											
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
				TAP	LOW	MED L	MED H	HIGH							
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				TAP	LOW	MED L	MED H								

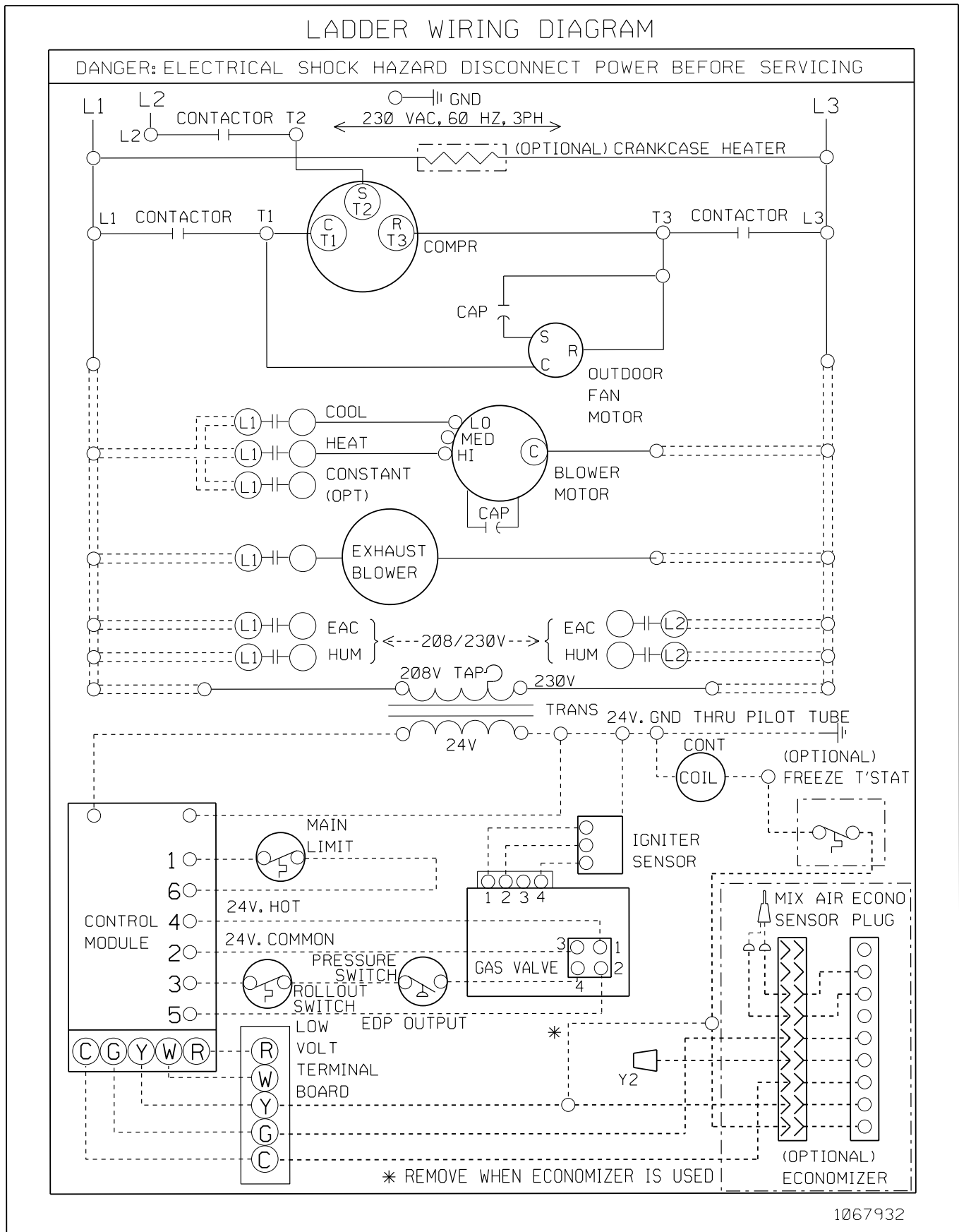
Technical Labels

Style No:	PGAC47 / PGMD47 (High Heat)				Outdoor Ambient Temperature - Degrees F. Dry Bulb																							
Voltage	208 / 230		Gas Type	NAT	IDB	75				85				95				105				115						
Phase	3		Std Input	135 / 110		Entering Indoor Temperature - Degrees F. Wet Bulb																						
Ampacity	23.6		Low Fire Input	110		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71			
Wire Ga/Ft	10 / 51		Std Output	106	70	MBh	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-		
Delay Fuse	30		Low Fire Output	87		S/T	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-		
Max. Fuse	35		Gas Valve (HSP)	HW		AMPS	14.0	14.3	14.6	-	14.9	15.2	15.5	-	15.7	16.0	16.4	-	16.4	16.7	17.2	-	17.2	17.5	18.0	-		
Compressor	COPELAND		Regulation	SNAP		HI PR	191	206	217	-	217	234	247	-	248	266	281	-	278	300	316	-	308	331	350	-		
RLA	13.11		Manifold Press	3.5	75	LO PR	61	65	71	-	63	68	74	-	67	71	77	-	70	74	81	-	72	77	84	-		
LRA	91		Std orifice	43		MBh	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6		
Cap MFD/V	-		Low Fire Orifice	46		S/T	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.86	0.65	0.42	0.98	0.87	0.66	0.42		
CC Heater	-		Pilot Orifice	0.018		AMPS	14.1	14.4	14.7	15.1	15.0	15.3	15.7	16.1	15.8	16.1	16.5	17.0	16.5	16.9	17.3	17.8	17.3	17.6	18.1	18.7		
Start Kit	-		Temp Rise	35 - 65	80	HI PR	193	208	219	229	220	236	249	260	250	269	284	296	281	303	320	333	311	334	353	368		
Cond & Evap	Cond	Evap	Ignition Type	HSP		LO PR	62	66	72	76	64	68	74	79	67	72	78	83	71	75	82	87	73	78	85	90		
Type	Fan	Blower	Fan On/Off	TIME		MBh	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3		
Size	22	DD11-11	Limit Set Max	135		S/T	0.97	0.91	0.74	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.58	1.00	0.99	0.81	0.61	1.00	1.00	0.82	0.61		
Motor-HP	3 / 4	1	Heat Antic	0.58	85	AMPS	14.2	14.4	14.8	15.2	15.1	15.4	15.8	16.2	15.9	16.2	16.6	17.1	16.7	17.0	17.4	18.0	17.4	17.8	18.3	18.8		
Type	PSC	PSC				HI PR	195	210	222	231	222	239	252	263	253	272	287	299	284	306	323	337	314	338	357	372		
FLA	2.6	4.6				LO PR	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91		
LRA	9.52	7.94				MBh	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0		
RPM	1145	1125			Air Delivery in CFM - Dry Coil - No Filter (Add .05 static for Wet Coil)	S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79		
Cap MFD/V	10/440	20/370				AMPS	14.3	14.5	14.9	15.3	15.2	15.5	15.9	16.3	16.0	16.3	16.7	17.2	16.8	17.1	17.6	18.1	17.6	17.9	18.4	19.0		
PTCR						HI PR	197	212	224	233	224	241	255	265	255	275	290	302	287	309	326	340	317	341	360	376		
Hi Press						LO PR	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	74	79	86	92		
Low Press																												
Operating Chg (No Lines)*	(R-22 Oz) 113						230 Volt				External Static Press (Inch Water Column)				208 Volt				External Static Press (Inch Water Column)									
Service Driers							Speed Tap				0.1	0.2	0.3	0.4	0.5	0.6	0.7	Speed Tap				0.1	0.2	0.3	0.4	0.5	0.6	0.7
Liquid/Chg	30 Cu In / 17 oz						HI				2260	2185	2125	2065	2010	1950	1875	HI				2025	1995	1960	1915	1870	1810	1745
Suction	30 Sq In						MD HI				1830	1805	1775	1735	1690	1635	1580	MD HI				1560	1545	1530	1505	1475	1435	1390
Unit Weight	600						MD LO				-	-	-	-	-	-	-	MD LO				-	-	-	-	-	-	-
							LO				1700	1685	1660	1625	1585	1540	1485	LO				1445	1430	1415	1390	1355	1320	1275

1082396

Style No:	PGAC60 / PGMD60 (High Heat)				Outdoor Ambient Temperature - Degrees F. Dry Bulb																					
Voltage	208 / 230		Gas Type	NAT	IDB	75				85				95				105				115				
Phase	3		Std Input	150		Entering Indoor Temperature - Degrees F. Wet Bulb																				
Ampacity	35.2		Low Fire Input	130		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
Wire Ga/Ft	8 / 57		Std Output	119	70	MBh	54.4	56.3	61.7	-	53.1	55.0	60.3	-	51.8	53.7	58.8	-	49.2	51.0	55.9	-	45.6	47.2	51.7	-
Delay Fuse	45		Low Fire Output	102		S/T	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
Max. Fuse	50		Gas Valve (HSP)	HW		AMPS	21.4	21.8	22.4	-	22.9	23.3	24.0	-	24.2	24.6	25.3	-	25.4	25.9	26.7	-	26.7	27.2	28.0	-
Compressor	COPELAND		Regulation	SNAP	75	HI PR	199	214	226	-	226	244	257	-	258	277	293	-	290	312	330	-	321	345	364	-
RLA	21.28		Manifold Press	3.5		LO PR	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-
LRA	128		Std orifice	43		MBh	55.3	56.9	61.6	66.1	54.0	55.6	60.1	64.5	52.7	54.2	58.7	63.0	50.0	51.5	55.7	59.8	46.3	47.7	51.6	55.4
Cap MFD/V	-		Low Fire Orifice	46	80	S/T	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
CC Heater	-		Pilot Orifice	0.018		AMPS	21.6	22.0	22.6	23.2	23.1	23.5	24.1	24.9	24.3	24.8	25.5	26.3	25.6	26.1	26.9	27.7	26.9	27.4	28.2	29.1
Start Kit	-		Temp Rise	35 - 65		HI PR	201	216	229	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384
Cond & Evap	Cond	Evap	Ignition Type	HSP	85	LO PR	61	65	71	75	63	67	74	78	66	71	77	82	70	74	81	86	72	77	84	89
Type	Fan	Blower	Fan On/Off	TIME		MBh	56.3	57.5	61.4	65.7	54.9	56.1	60.0	64.1	53.6	54.8	58.5	62.5	50.9	52.0	55.6	59.4	47.2	48.2	51.5	55.0
Size	22	DD11-11	Limit Set Max	130		S/T	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59
Motor-HP	3 / 4	1	Heat Antic	0.58	85	AMPS	21.7	22.2	22.7	23.4	23.2	23.7	24.3	25.1	24.5	25.0	25.7	26.5	25.8	26.3	27.1	27.9	27.1	27.6	28.4	29.3
Type	PSC	PSC				HI PR	203	219	231	241	231	249	263	274	263	283	299	312	296	319	336	351	327	352	372	388
FLA	2.6	6				LO PR	62	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	85	90
LRA	9.52	15.14			85	MBh	57.2	58.4	61.1	65.2	55.9	57.0	59.7	63.7	54.5	55.6	58.2	62.1	51.8	52.8	55.3	59.0	48.0	48.9	51.2	54.6
RPM	1145	1140				S/T	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
Cap MFD/V	10/440	20/370				AMPS	21.9	22.3	22.9	23.6	23.4	23.9	24.5	25.3	24.7	25.2	25.9	26.7	26.0	26.5	27.3	28.2	27.3	27.9	28.6	29.6
PTCR					85	HI PR	205	221	233	243	233	251	265	277	266	286	302	315	299	322	340	354	330	355	375	392
Hi Press						LO PR	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	85	91
Low Press						Air Delivery in CFM - Dry Coil - No Filter (Add .05 static for Wet Coil)																				
Operating Chg (No Lines)*	(R-22 Oz)				230 Volt External Static Press (Inch Water Column) 208 Volt External Static Press (Inch Water Column)																					
Service Driers	30 Cu In / 17 oz				Speed Tap	0.1	0.2	0.3	0.4	0.5	0.6	0.7	Speed Tap	0.1	0.2	0.3	0.4	0.5	0.6	0.7						
Liquid/Chg Suction	30 Sq In				HI	2470	2400	2325	2250	2170	2085	2000	HI	2380	2315	2250	2185	2105	2020	1940						
Unit Weight	630				MD HI	2395	2335	2270	2200	2125	2050	1965	MD HI	2310	2250	2185	2125	2060	1980	1905						
					MD LO	2260	2205	2145	2080	2015	1940	1865	MD LO	2090	2045	1995	1945	1890	1820	1750						
					LO	2140	2095	2040	1985	1920	1855	1780	LO	1915	1885	1845	1805	1755	1700	1640						
1082397																										

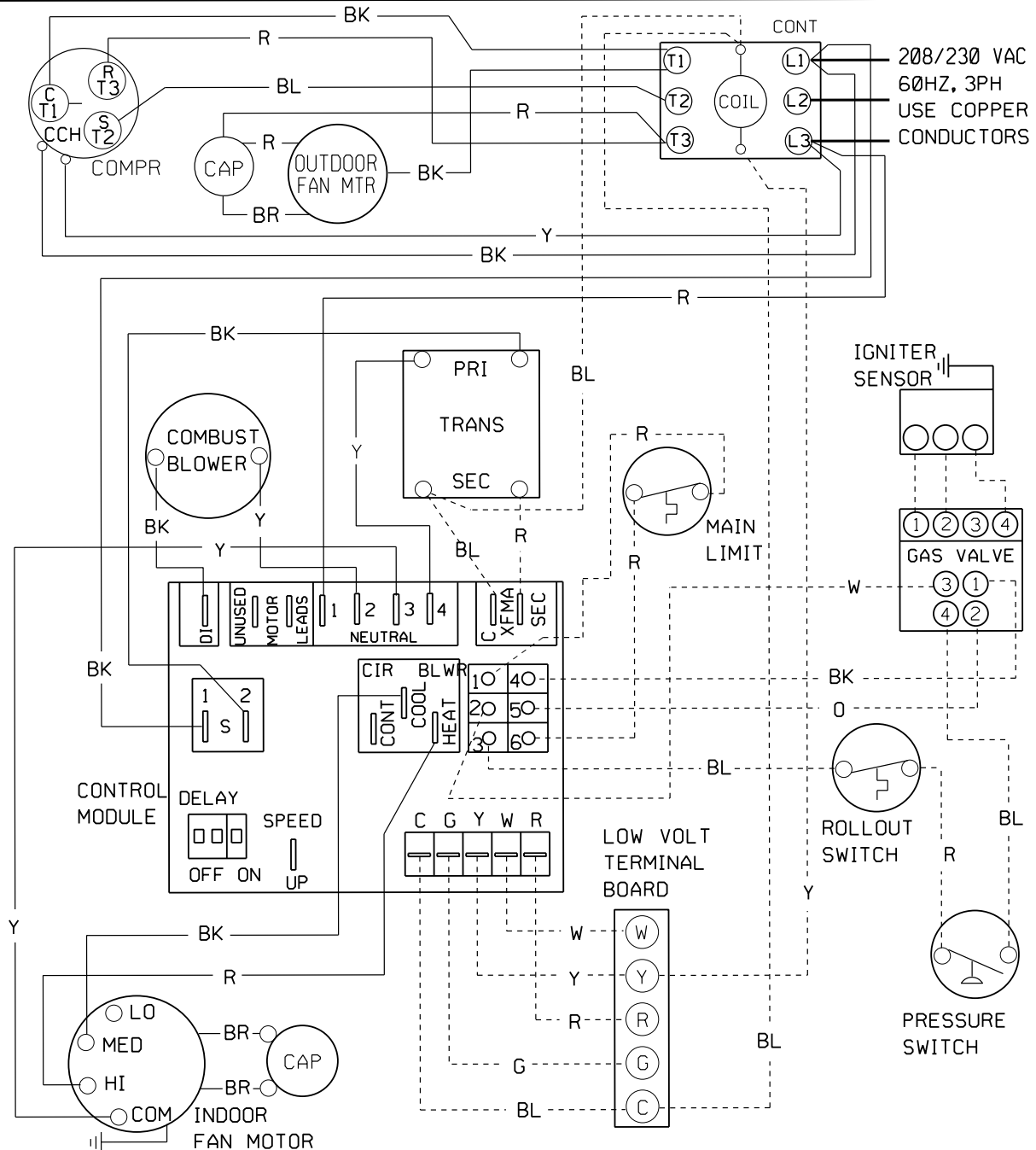
Ladder Wiring Diagram - All Units



Connection Wiring Diagram - 3 & 3-1/2 Ton

CONNECTION WIRING DIAGRAM

DANGER: ELECTRICAL SHOCK HAZARD DISCONNECT POWER BEFORE SERVICING



IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE AWM-105°C OR ITS EQUIVALENT.

* SEE INSTALLATION INSTRUCTIONS FOR PROPER HEATING AND COOLING CONNECTIONS FOR YOUR UNIT

— LINE VOLTAGE FACTORY	COLOR CODE	BLACK BK	GREEN G	WHITE W
— LINE VOLTAGE FIELD		BLUE BL	ORANGE O	YELLOW Y
— LOW VOLTAGE FACTORY		BROWN BR	RED R	
— LOW VOLTAGE FIELD		GRAY GY	VIOLET V	

1067931-A

Connection Wiring Diagram - 4 & 5 Ton

